Aquatic Animal Health Standards Commission Report

March 2007

CHAPTER 2.2.1.

#### INFECTION WITH BONAMIA OSTREAE

Article 2.2.1.1.

For the purposes of the Aquatic Code, infection with Bonamia ostreae means infection only with Bonamia ostreae.

Methods for conducting surveillance, diagnosis and confirmatory identification of infection with *Bonamia ostreae* are provided in the *Aquatic Manual*.

Article 2.2.1.2.

## Scope

The recommendations in this Chapter apply to: European flat oyster (Ostrea edulis), Australian mud oyster (O. angasi), Argentinean flat oyster (O. puelchana), Chilean flat oyster (O. chilensis), Asiatic oyster (O. denselammellosa) and Suminoe oyster (Crassostrea ariakensis). These recommendations also apply to any other susceptible species referred to in the Aquatic Manual when traded internationally.

Article 2.2.1.3.

#### Commodities

- 1. When authorising the importation or transit of the following commodities, the Competent Authorities should not require any Bonamia ostreae related conditions, regardless of the Bonamia ostreae status of the exporting country, zone or compartment:
  - a) For the species referred to in Article 2.2.1.2. being used for any purpose:
    - i) <u>commodities</u> treated in a manner that kills the host (and thereby inactivates the <u>disease agent</u>) e.g. <u>commercially</u> sterile canned <u>or pasteurised products</u> or other <u>heat treated</u>;
    - ii) gametes, eggs and larvae;
    - <u>iii)</u> <u>biological samples preserved for diagnostic applications in such a manner as to inactivate the *disease agent*.</u>
  - b) All commodities from Crassostrea gigas, C. virginica, Ruditapes decussatus, R. philippinarum, Mytilus galloprovincialis and M. edulis, including the live aquatic animal.

- The following *commodities* destined for human consumption from the species referred to in Article 2.2.1.2. which have been prepared and packaged for direct retail trade in such a way as to minimise the likelihood of alternative uses:
  - chemically preserved products (e.g. smoked, salted, pickled, marinated, etc.);
  - ii) non commercially sterile products (e.g. ready prepared meals) that have been heat treated in a manner to ensure the inactivation of the parasite;
  - i<del>ii</del>) off the shell (chilled or frozen) <del>packaged for direct retail trade</del>;
  - iiv) half-shell (chilled).
- e) All commodities from Crassostrea gigas, C. virginica, Ruditapes decussatus, R. philippinarum, Mytilus galloprovincialis and M. edulis, including the live aquatic animal.

For the *commodities* referred to in point 1 b)c, Member Countries should consider introducing internal measures to prevent the *commodity* being used for any purpose other than for human consumption.

- 2. When authorising the importation or transit of *commodities* of a species referred to in Article 2.2.1.2., other than *commodities* referred to in point 1 of Article 2.2.1.3., the *Competent Authorities* should require the conditions prescribed in Articles 2.2.1.7. to 2.2.1.11. relevant to the *Bonamia ostreae* status of the *exporting country*, *zone* or *compartment*.
- 3. When considering the importation/transit from an exporting country, zone or compartment not declared free of infection with Bonamia ostreae of a commodity from bivalve species not referred to covered in Article 2.2.1.2. (especially those of the genus Ostrea) nor in point 1e)b) of Article 2.2.1.3. but which could reasonably be expected to be a potential Bonamia ostreae vector from an exporting country, zone or compartment not declared free of Bonamia ostreae, the Competent Authorities should conduct an risk analysis in accordance with the recommendations in the Aquatic Code of the risk of introduction, establishment and spread of Bonamia ostreae, and the potential consequences, associated with the importation of the commodity prior to a decision. The exporting country should be informed of the outcome of this assessment.

Article 2.2.1.4.

## Bonamia ostreae free country

A country may make a self-declaration of freedom from Bonamia ostreae if it meets the conditions in points 1, 2, 3 or 4 below.

If a country shares a zone with one or more other countries, it can only make a self-declaration of freedom from Bonamia ostreae if all the areas covered by the shared water are declared

Bonamia ostreae free zones (see Article 2.2.1.5.).

1. A country where none of the *susceptible species* referred to in Article 2.2.1.2. is present may make a *self-declaration of freedom* from *Bonamia ostreae* when *basic biosecurity conditions* have been continuously met in the country for at least the past 2 years.

## OR

2. A country where any susceptible species referred to in Article 2.2.1.2. are present but there has never been any observed occurrence of the disease for at least the past 10 years despite conditions – in all areas where the species are present – that are conducive to its clinical expression, as described in Chapter 2.2.1. of the Aquatic Manual, may make a self-declaration of freedom from Bonamia ostreae when basic biosecurity conditions have been continuously met in the country for at least the past 2 years and infection with Bonamia ostreae is not known to be established in wild populations.

#### OR

- 3. A country where the last known clinical occurrence was within the past 10 years, or where the *infection* status prior to *targeted surveillance* was unknown, for example (e.g. because of the absence of conditions conducive to clinical expression, as described in Chapter 2.2.1. of the *Aquatic Manual*, may make a *self-declaration of freedom* from *Bonamia ostreae* when:
  - a) basic biosecurity conditions have been continuously met for at least the past 2 years; and
  - b) targeted surveillance, as described in Chapters 1.1.4. and 2.2.1. of the Aquatic Manual, has been in place for at least the past 2 years without detection of Bonamia ostreae.

## OR

- 4. A country that has previously made a self-declaration of freedom from Bonamia ostreae but in which the disease is subsequently detected may not make a self-declaration of freedom from Bonamia ostreae again until when the following conditions have been met:
  - a) on detection of the *disease*, the affected area was declared an *infected zone* and a *buffer zone* was established; and
  - b) infected populations have been destroyed or removed from the *infected zone* by means that minimise the risk of further spread of the *disease*, and the appropriate *disinfection* procedures (see *Aquatic Manual*) have been completed; and
  - c) targeted surveillance, as described in Chapters 1.1.4. and 2.2.1. of the Aquatic Manual, has been in place for at least the past 2 years without detection of Bonamia ostreae; and

d) previously existing *basic biosecurity conditions* have been reviewed and modified as necessary and have continuously been in place for at least the past 2 years.

In the meantime, part of the non-affected area may be declared a free *zone* provided that **to such part** meets the conditions in point 3 of Article 2.2.1.5.

Article 2.2.1.5.

## Bonamia ostreae free zone or free compartment

A zone or compartment free from Bonamia ostreae may be established within the territory of one or more countries of infected or unknown status for infection with Bonamia ostreae and declared free by the Competent Authority(ies) of the country(ies) concerned if the zone or compartment meets the conditions referred to in points 1, 2, 3 or 4 below.

If a zone or compartment extends over more than one country, it can only be declared a Bonamia ostreae free zone or compartment if the conditions outlined below apply to all areas of the zone or compartment.

1. In a country of unknown status for *Bonamia ostreae*, a zone or compartment where none of the susceptible species referred to in Article 2.2.1.2. is present may be declared free from *Bonamia ostreae* when basic biosecurity conditions have been continuously met in the zone or compartment for at least the past 2 years.

#### OR

2. In a country of unknown status for *Bonamia ostreae*, a zone or compartment where any susceptible species referred to in Article 2.2.1.2. are present but there has never been any observed occurrence of the disease for at least the past 10 years despite conditions – in all areas where the species are present – that are conducive to its clinical expression, as described in Chapter 2.2.1. of the Aquatic Manual, may be declared free from Bonamia ostreae when basic biosecurity conditions have been continuously met in the zone or compartment for at least the past 2 years and infection with Bonamia ostreae is not known to be established in wild populations.

## OR

- 3. A zone or compartment where the last known clinical occurrence was within the past 10 years, or where the infection status prior to targeted surveillance was unknown, for example (e.g. because of the absence of conditions conducive to clinical expression, as described in Chapter 2.2.1. of the Aquatic Manual, may be declared free from Bonamia ostreae when:
  - a) basic biosecurity conditions have been continuously met for at least the past 2 years; and

b) targeted surveillance, as described in Chapters 1.1.4. and 2.2.1. of the Aquatic Manual, has been in place for at least the past 2 years without detection of Bonamia ostreae.

OR

- 4. A zone previously declared free from *Bonamia ostreae* but in which the *disease* is subsequently detected may not be declared free from *Bonamia ostreae* again until when the following conditions have been met:
  - a) on detection of the *disease*, the affected area was declared an *infected zone* and a *buffer zone* was established; and
  - b) infected populations have been destroyed or removed from the *infected zone* by means that minimise the risk of further spread of the *disease*, and the appropriate *disinfection* procedures (see *Aquatic Manual*) have been completed; and
  - c) targeted surveillance, as described in Chapters 1.1.4. and 2.2.1. of the Aquatic Manual, has been in place for at least the past 2 years without detection of Bonamia ostreae; and
  - d) previously existing basic biosecurity conditions have been reviewed and modified as necessary and have continuously been in place for at least the past 2 years.

Article 2.2.1.6.

#### Maintenance of free status

A country, zone or compartment that is declared free from Bonamia ostreae following the provisions of points 1 or 2 of Articles 2.2.1.4. or 2.2.1.5. (as relevant) may maintain its status as Bonamia ostreae free provided that basic biosecurity conditions are continuously maintained.

A country, zone or compartment that is declared free from Bonamia ostreae following the provisions of point 3 of Articles 2.2.1.4. or 2.2.1.5. (as relevant) may discontinue targeted surveillance and maintain its status as Bonamia ostreae free provided that conditions that are conducive to clinical expression of infection with Bonamia ostreae, as described in Chapter 2.2.1. of the Aquatic Manual, exist and basic biosecurity conditions are continuously maintained.

However, for declared free zones or compartments in infected countries and in all cases where conditions are not conducive to clinical expression of infection with *Bonamia ostreae*, targeted surveillance needs to be continued at a level determined by the *Competent Authority* on the basis of the likelihood of *infection*.

Article 2.2.1.7.

## Importation of live aquatic animals from a country, zone or compartment declared free from *Bonamia ostreae*

When importing live aquatic animals of species referred to in Article 2.2.1.2. from a country, zone or compartment declared free from Bonamia ostreae, the Competent Authority of the importing country should require an international aquatic animal health certificate issued by the Competent Authority of the exporting country or a certifying official approved by the importing country.

This *certificate* must certify, on the basis of the procedures described in Articles 2.2.1.4. or 2.2.1.5. (as applicable), whether the place of production of the <u>commodity</u> <del>consignment</del> is a country, *zone* or *compartment* declared free from *Bonamia ostreae*.

The *certificate* should be in accordance with the Model Certificate in Appendix 4.1.2.

This Article does not apply to *commodities* referred to in point 1 of Article 2.2.1.3.

Article 2.2.1.8.

# Importation of live aquatic animals for aquaculture from a country, zone or compartment not declared free from *Bonamia ostreae*

- 1. When importing, for aquaculture, live aquatic animals of species referred to in Article 2.2.1.2. from a country, zone or compartment not declared free from Bonamia ostreae, the Competent Authority of the importing country should assess the risk and if justified, apply the following risk mitigation measures such as:
  - <u>a)</u>1. the direct delivery into and <u>lifelong</u> holding of the consignment in <u>biosecure</u> accilities for;
  - 2. the continuous isolation of the imported aquatic animals from the local environment; and
  - <u>b)3</u>. the treatment of all effluent and waste material from the processing in a manner that ensures inactivation of *Bonamia ostreae*.
- 2. If the intention of the introduction is the establishment of a new stock, international standards, such as the Code of Practice on the Introductions and Transfers of Marine Organisms of the International Council for the Exploration of the Seas (ICES), should be followed.
- 3. For the purposes of the *Aquatic Code*, the ICES Code may be summarised to the following main points:
  - a) identify stock of interest (cultured or wild) in its current location;
  - b) evaluate stock health/disease history;

- c) take and test samples for *Bonamia ostreae*, pests and general health/disease status;
- d) import and quarantine in a secure facility a founder (F-0) population;
- e) produce F-1 generation from the F-0 stock in quarantine;
- f) <u>culture F-1 stock and at critical times in its development (life cycle) sample and test</u> for *Bonamia ostreae* and perform general examinations for pests and general health/disease status;
- g) if Bonamia ostreae is not detected, pests are not present, and the general health/disease status of the stock is considered to meet the basic biosecurity conditions of the importing country, zone or compartment, the F-1 stock may be defined as free of infection with Bonamia ostreae or specific pathogen free (SPF) for Bonamia ostreae;
- h) release SPF F-1 stock from quarantine for aquaculture or stocking purposes in the country, zone or compartment.

This Article does not apply to *commodities* referred to in point 1 of Article 2.2.1.3.

Article 2.2.1.9.

Importation of live aquatic animals for processing for human consumption from a country, zone or compartment not declared free from *Bonamia ostreae* 

When importing, for processing for human consumption, live aquatic animals of species referred to in Article 2.2.1.2. from a country, zone or compartment not declared free from Bonamia ostreae, the Competent Authority of the importing country should assess the risk and, if justified, require that:

- 1. the consignment be delivered directly to and held in *quarantine* facilities until processing and/or consumption; and
- 2. all effluent and waste material from the processing be treated in a manner that ensures inactivation of *Bonamia ostreae*.

This Article does not apply to *commodities* referred to in point 1 of Article 2.2.1.3.

Article 2.2.1.10.

Importation of aquatic animal products from a country, zone or compartment declared free from *Bonamia ostreae* 

When importing aquatic animal products of species referred to in Article 2.2.1.2. from a country, zone or compartment declared free from Bonamia ostreae, the Competent Authority of

the *importing country* should require that the consignment be accompanied by an *international* aquatic animal health certificate issued by the Competent Authority of the exporting country or a certifying official approved by the *importing country*.

This *certificate* must certify, on the basis of the procedures described in Articles 2.2.1.4. or 2.2.1.5. (as applicable), whether or not the place of production of the consignment is a country, *zone* or *compartment* declared free from *Bonamia ostreae*.

The *certificate* should be in accordance with the Model Certificate in Appendix X.X.X. (under study).

This Article does not apply to *commodities* referred to in point 1 of Article 2.2.1.3.

Article 2.2.1.11.

## Importation of aquatic animal products from a country, zone or compartment not declared free from *Bonamia ostreae*

When importing aquatic animal products of species referred to in Article 2.2.1.2. from a country, zone or compartment not declared free from Bonamia ostreae, the Competent Authority of the importing country should assess the risk and apply appropriate risk mitigation measures.

This Article does not apply to commodities referred to in point 1 of Article 2.2.1.3.

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